SANMITRA TECHNOLOGICAL CORPORATION

STC

(ISO 9001:2015 Certified Third Party Quality Control Certification
& Project Management Consultancy Organisation,
with NABL MOU for Testing and Calibration)
E-Mail : sanmitracorp@gmail.com, sanmitratechcorp@gmail.com
Ph : +91 9483808172 / 6364311207

Ref. No. STC/BBMP/Dasarhalli-P2/118

Date : 3/3/2020

To,

The Executive Engineer
Project Division Dasarahalli
BBMP Banglore.

Respected Sir,

SUB: Submission of , Test reports for Improvements and Construction of Improvements and construction of CC Road and Drains at MEI Layout and Surrounding Roads in Ward 14 Bagalagunte

With reference to above subject we are submitting Test reports For Construction of CC Road and Drains MEI Layout and Surrounding Roads in Ward 14 Bagalagunte

The following tests were conducted.

1. Material Test of Ingredients of Concrete.
2. Cube Test.
3. Concrete Core Test.

The test results, remarks are enclosed here with, please consider.

Thanking You,

Yours faithfully,

Sanmitra Technological Corporation

Asst. Executive Engineer
Project Division, Dasrahalli Zo
BBMP, Bangalore

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Ref No:

Date :

TEST REPORT OF CEMENT

Name of the Project : Improvements and construction of CC Road and Drains at MEI Layout and Surrounding Roads in Ward 14 Bagalagunte.

Scope of the Work : Cement concrete for Raft of drins,side walls.

Name of Client : The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.

Date of Testing : 16-12-2019

Type of Cement : Ultratech OPC 43 Grade.

Specification : IS : 8112-1989/455-1976/1489-1976&12269-1999.& 4031 part IV.

Physical Requirements:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT	Test Method as per IS
1	Normal Consistency	29	----	IS-4031(Part-4)
2	Initial time in minute	115	30 (Min)	IS -4031(part-5)
3	Final time in minute	218	600(Max)	IS -4031(part-5)
4	Fineness of Cement (By Sieving method) in %	1.90	10 (Max)	IS 4031(part-5)
5	Soundness (By Le-Chatlier's method) in mm	1mm	10 (Max)	IS-4031(part-3)by the Le-chatelier Method.
6	Compressive strength in Mpa a) 72± 1hour	25.6	23 (Min)	IS 4031(Part-6)
	b) 168± 2hour	35.8	33 (Min)	

Remark:

The sample confirms to IS Specifications.

Note:

1. The results pertain to the samples tested only.
2. Remaining sample will be retained for a period of 15 days & no later complaints will be entertained.
3. The responsibility of the laboratory is limited only to the technical contents of the report. All the procedural, legal operational Matters would be the responsibility of client or customer.
4. This report should not be reproduced in part without the written approval from the laboratory.

Siddu N.B
Verified By

Asst. Executive Engineer
Project Division, Dasrahalli Zone

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Ref. No.

Date :

TEST REPORT OF FINE AGGREGATES (M.SAND)

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Cement concrete for Raft of drins,side walls. .**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Testing : **13/12/2019**

Type of Cement : **Ultratech OPC 43 Grade**

Sieve Analysis & Results:

SL NO	IS SIEVE DESIGNATION	% of cum wt retained	% OF PASSING	As per IS:383-1970	
1.	10mm	00	100	--------	Zone-II
2.	4.75mm	6.51	93.49	90-100	
3.	2.36mm	16.25	83.75	75-100	
4.	1.18mm	33.52	66.48	55-90	
5.	600micron	61.10	38.90	35-59	
6.	300micron	91.10	8.90	8-30	
7.	150micron	97.15	2.85	0-10	
Water absorption, %				0.72	
Silt & clay, %				1.12	
Specific gravity				2.62	
Bulkage of sand, %				15.11	

Test Report:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT
1.	Sieve analysis	Sample confirms to grading zone II	---
2.	Water absorption in %	0.72	1.2 (Max)
3.	Silt & clay content in %	1.12	3 (Max)
4.	Specific gravity	2.62	2.6-2.8
5.	Bulkage of sand	15.11	40 (Max)

Remark:

The sample confirms to IS Specifications.

Note:

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Ref. No.

Date :

TEST REPORT OF CEMENT

Name of the Project : Improvements and construction of CC Road and Drains at MEI Layout and Surrounding Roads in Ward 14 Bagalagunte.

Scope of the Work : Cement concrete for Raft of drins,side walls.

Name of Client : The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.

Date of Sampling : 17-12-2019

Type of Cement : Ultratech OPC 43 Grade.

Specification : IS : 8112-1989/455-1976/1489-1976&12269-1999.& 4031 part IV.

Physical Requirements:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT	Test Method as per IS
1	Normal Consistency	28.65	----	IS-4031(Part-4)
2	Initial time in minute	114	30 (Min)	IS -4031(part-5)
3	Final time in minute	219	600(Max)	IS -4031(part-5)
4	Fineness of Cement (By Sieving method) in %	2.00	10 (Max)	IS 4031(part-5)
5	Soundness (By Le-Chatlier's method) in mm	1mm	10 (Max)	IS-4031(part-3)by the Le-chatelier Method.
6	Compressive strength in Mpa e) 72± 1hour	24.5	23 (Min)	IS 4031(Part-6)
	f) 168± 2hour	35.8	33 (Min)	

Remark:

The sample confirms to IS Specifications.

Note:

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TEST REPORT OF FINE AGGREGATES (M.SAND)

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Cement concrete for Raft of drins,side walls.**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Testing : **13/12/2019**

Type of Cement : **Ultratech OPC 43 Grade**

Sieve Analysis & Results:

SL NO	IS SIEVE DESIGNATION	% of cum wt retained	% OF PASSING	As per IS:383-1970	
1.	10mm	00	100	--------	Zone-II
2.	4.75mm	6.90	93.11	90-100	
3.	2.36mm	16.15	83.85	75-100	
4.	1.18mm	34.55	65.45	55-90	
5.	600micron	61.12	38.88	35-59	
6.	300micron	91.15	8.85	8-30	
7.	150micron	97.15	2.85	0-10	
Water absorption, %				0.78	
Silt & clay, %				1.12	
Specific gravity				2.61	
Bulkage of sand, %				15.20	

Test Report:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT
1.	Sieve analysis	Sample confirms to grading zone II	---
2.	Water absorption in %	0.78	1.2 (Max)
3.	Silt & clay content in %	1.12	3 (Max)
4.	Specific gravity	2.61	2.6-2.8
5.	Bulkage of sand	15.20	40 (Max)

Remark:

The sample confirms to IS Specifications.

Note:

1. The results pertain to the samples tested only.
2. Remaining sample will be retained for a period of 15 days & no later complaints will be entertained

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Ref. No.

Date :

TEST REPORT ON CONCRETE CUBES

Name of the Project : **Improvements and construction of CC Road and Drains at MEI Layout and Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and laying reinforced cement concrete for raft and side walls**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Cross Sectional Area : **22500mm2**
No of samples Tested : **03**
Grade of Concrete : **M20**
Technical Refference : **IS 516-1959(Reaffirmed 2018)**

Sl no	Date of casting	Date of Testing	Weight of cube (Kg)	Failure Load (KN)	Compressive strength N/mm2
01	21/12/2019	18/01/2020	8.56	481.20	21.38
02	21/12/2019	18/01/2020	8.35	479.13	21.29
03	21/12/2019	18/01/2020	8.51	480.56	21.35

Remark:
The sample confirms to IS Specifications.

Note:

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Project Division, Dasarahalli Zone
BBMP, Bangalore

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Date :

TEST REPORT ON CONCRETE CUBES

Name of the Project : **Improvements and construction of CC Road and Drains at MEI Layout and Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and laying reinforced cement concrete for raft and side walls**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Cross Sectional Area : **22500mm2**
No of samples Tested : **03**
Grade of Concrete : **M20**
Technical Refference : **IS 516-1959(Reaffirmed 2018)**

Sl no	Date of casting	Date of Testing	Weight of cube (Kg)	Failure Load (KN)	Compressive strength N/mm2
01	25/12/2019	22/01/2020	8.290	546.3	24.28
02	25/12/2019	22/01/2020	8.246	532.5	23.67
03	25/12/2019	22/01/2020	8.255	514.5	22.88

Remark:
The sample confirms to IS Specifications.
Note:

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SANMITRA TECHNOLOGICAL CORPORATION

Ref. No: BADAMI

Date :

TEST RESULTS OF KERB STONE(CORE)

Name of the Project : **Improvements and construction of CC Road and Drains at MEI Layout and Surrounding Roads in Ward 14 Bagalagunte.**
Scope of the Work : **Providing Cement Concrete precast kerb stone.**
Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**
Date of Testing : **06-02-2020.**
No of samples Tested : **03**
Grade of Concrete : **M15**
Technical Refference : **IS 516-1959 (Reaffirmed 2018) SP-24:1983**

SL NO	D of core (mm)	Height of core H(mm)	Core weight (kg)	Density of core (kg/m3)	H/D	Correction factor based on (H/D)	Failure Load (Kn)	Core strength (N/mm2)	Correction factor based on dia.	Corrected cylinder compressive strength (N/mm2)	Equivalent cube compressive strength (N/mm2)
1	50.00	60.00	0.320	2716.46	1.2	0.910	25.50	12.98	14.01	12.74	15.92
2	50.00	70.00	0.340	2473.72	1.4	0.930	26.31	13.39	14.46	13.44	16.80
3	50.00	80.00	0.389	2476.45	1.6	0.960	27.55	14.03	15.15	14.54	18.17

Remark:
The sample confirms to IS Specifications.
Note:
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